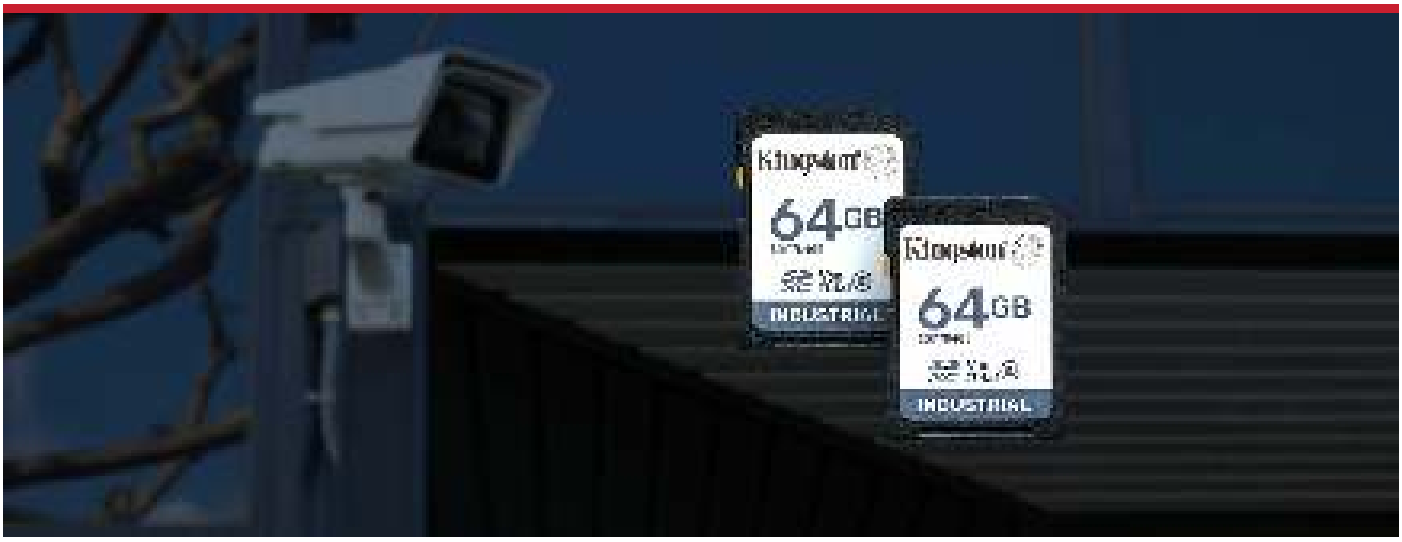

Industrial SD Memory Card

Ideal for extreme conditions

Kingston's Industrial SD card delivers superior endurance and reliability across industrial applications including automation, telecommunication, data systems, building management and POS systems. It is designed and tested to withstand the most demanding environmental factors. With an operating temperature of -40°C to 85°C, Kingston's Industrial SD card can operate normally in extended temperature ranges. The card utilises the industry-leading pSLC mode to provide reliable read read/write speeds up to 100/80MB/s[1]. It is rated up to 1920 TBW[2] with 30K P/E cycles and has a built-in feature set specific to endurance, performance and industrial needs. Kingston's Industrial SD is available in capacities from 8GB–64GB[3].

- Durable in extreme temperatures
- High endurance
- UHS-I Speed Class U3, V30, A1
- Industrial-grade built-in features

Key Features

- Durable in extreme temperatures

  Designed and tested to withstand an extended temperature range of -40°C to 85°C for use in harsh conditions.

- High endurance and reliability

  Up to 1920 TBW[2] and rated to endure 30K P/E cycles to meet requirements for a wide range of industrial applications.

- UHS-I compliant

  read/write speeds up to 100/80MB/s[1] with U3, V30 and A1 support for Android-based applications

- Industrial-grade built-in features

  Wear levelling, bad block management and an optional health monitoring tool to manage the lifespan of your card[4].

Specifications

Capacities[3]	8GB, 16GB, 32GB, 64GB
Speed[1]	Up to 100MB/s read, 80MB/s write
Performance[1]	Class 10, UHS-I, U3, V30, A1
Endurance[2]	Up to 1920 TBW 30K P/E cycles
NAND	TLC in pSLC mode
Dimensions	24mm x 32mm x 2.1mm
Format	FAT32 for SDHC and exFAT for SDXC
Operating & storage temperature	-40°C to 85°C

Voltage	3.3V
Industrial features	· Bad block management · Power failure protection · Wear levelling · Auto-refresh read distribution protection · Dynamic data refresh · SiP – system in package · Garbage collection · Health monitoring
Durability	Waterproof[5] Temperature proof[6] Protected from airport x-rays[7]
Thermal cycle testing	Interval testing completed at various extreme temperatures
Vigorous temperature humidity bias	Several hundred hours of testing to ensure durability at varying levels of humidity
Wide temp chamber testing	Completed on all SDIT cards prior to production
Warranty[4]	3 years

Part Numbers

SDIT

SDIT/8GB
SDIT/16GB
SDIT/32GB
SDIT/64GB

Product Image

1. [Geo.RemoveCountry:ID] Speed may vary due to host and device configuration. [/Geo.RemoveCountry] [Geo.IncludeCountry:ID] Kecepatan dapat bervariasi tergantung pada konfigurasi hosting dan perangkat. [/Geo.IncludeCountry]
2. Terabytes Written (TBW) is derived from the endurance under the highest capacity and is based on internal metrics that quantify how much data can be written to a card in its lifespan.
3. Some of the listed capacity on a Flash storage device is used for formatting and other functions and thus is not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. For more information, go to Kingston's Flash Memory Guide.
4. Kingston Flash Cards are designed and tested for compatibility with consumer-grade market products. It is recommended that you contact Kingston directly for any OEM opportunities or special use applications that are beyond the standard daily consumer usage. For more information on intended use, please refer to the Flash Memory Guide
5. IEC/EN 60529 IPX7 certified for protection against continual water submersion up to 30 min. and depth up to 1m.
6. Withstands temperature range from -40 °C to 85 °C.
7. Protected against X-ray exposure based on ISO7816-1 guidelines.